

Title (en)

SILICONE COMPOSITIONS THAT CAN BE CROSS-LINKED BY IRRADIATION WITH UV LIGHT

Title (de)

DURCH BESTRAHLUNG MIT UV-LICHT VERNETZBARE SILICONZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS DE SILICONE RÉTICULABLES PAR IRRADIATION AVEC DE LA LUMIÈRE ULTRAVIOLETTE

Publication

**EP 3585840 A1 20200101 (DE)**

Application

**EP 17751072 A 20170804**

Priority

EP 2017069787 W 20170804

Abstract (en)

[origin: WO2019025001A1] Novel silicone compositions that can be cross-linked by irradiation with light, preferably UV light, are described, containing (A) organosilicon compounds having Si-C-bonded moieties having aliphatic C-C multiple bonds, (B) organosilicon compounds having Si-bonded H atoms or, instead of (A) and (B), (C) organosilicon compounds having Si-C-bonded moieties having aliphatic C-C multiple bonds and Si-bonded H atoms, (D) platinum catalysts that can be activated by light of 200 to 500 nm, preferably UV light of 200 to 400 nm, selected from the group of the cyclopentadienyl complexes of platinum, and (E) organophosphorus compounds selected from the group of formulas P(=O)u[ (OR<sub>10</sub>) ] s [R<sub>11</sub>] t (I), P[ (O) iSiR<sub>12</sub> 3 ] 3 (II), (OO) and mixtures thereof, wherein R<sub>10</sub> and R<sub>11</sub> each mean a monovalent aliphatic or aromatic hydrocarbon moiety having 1 to 100 C atoms, which can contain heteroatoms selected from the group of O, N, Si, P, F, Cl and Br, R<sub>12</sub> means a monovalent hydrocarbon moiety having 1 to 18 C atoms, R<sub>13</sub> means a tetravalent hydrocarbon moiety having 5 to 30 C atoms, R<sub>14</sub> has the meaning of R<sub>10</sub>, s is 0, 1, 2 or 3, t is 0, 1, 2 or 3, with the stipulation that the sum s+t equals 3, u is 0 or 1 and i is 0 or 1.

IPC 8 full level

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CPC (source: EP KR US)

**C08G 77/08** (2013.01 - KR); **C08G 77/12** (2013.01 - KR); **C08G 77/20** (2013.01 - KR); **C08K 5/52** (2013.01 - KR); **C08K 5/527** (2013.01 - KR); **C08K 5/5415** (2013.01 - KR); **C08L 83/04** (2013.01 - EP US); **C09D 183/04** (2013.01 - EP KR US); **C09J 183/04** (2013.01 - EP KR US); **C08K 5/50** (2013.01 - US); **C08K 5/5357** (2013.01 - US)

Citation (search report)

See references of WO 2019025001A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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